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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 0942.4330002	APPLICATION NO. 09/064,057
	APPLICANT GERARD <i>et al.</i>	
	FILING DATE April 22, 1998	GROUP <del>1634</del> 1652

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA2						
	AB2						
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<i>r.r.</i>	AE2	5,322,770	06/21/1994	Gelfand, D.H.	435	6	12/22/1989
<i>r.r.</i>	AF2	5,407,800	04/18/1995	Gelfand <i>et al.</i>	435	6	06/17/1993
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
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	AL						Yes
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	AM						Yes
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	AN						Yes
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	AO						Yes
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	AP						Yes
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
<i>r.r.</i>	AR	18	Dudding, L.R., <i>et al.</i> , "Analysis of the RNA- and DNA-Dependent DNA Polymerase Activities of Point Mutants of HIV-1 Reverse Transcriptase Lacking Ribonuclease H Activity," <i>Biochemistry</i> 30:10498-10506 (1991).
<i>r.r.</i>	AS	18	Hizi, A., <i>et al.</i> , "Mutational Analysis of the Ribonuclease H Activity of Human Immunodeficiency Virus 1 Reverse Transcriptase," <i>Virology</i> 175:575-580 (1990).
<i>r.r.</i>	AT	18	Johnson, M.S., <i>et al.</i> , "Computer analysis of retroviral <i>pol</i> genes: Assignment of enzymatic functions to specific sequences and homologies with nonviral enzymes," <i>Proc. Natl. Acad. Sci. USA</i> 83:7648-7652 (October 1986).

EXAMINER <i>r. r. [signature]</i>	DATE CONSIDERED 4/20/99
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	AP						Yes
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<i>r.e.</i>	AR	<u>19</u>	Kanaya, S., <i>et al.</i> , "Identification of the Amino Acid Residues Involved in an Active Site of <i>Escherichia coli</i> Ribonuclease H by Site-directed Mutagenesis," <i>J. Biol. Chem.</i> 265:4615-4621 (March 1990).
<i>r.e.</i>	AS	<u>19</u>	Mizrahi, V., <i>et al.</i> , "Site-directed mutagenesis of the conserved Asp-443 and Asp-498 carboxy-terminal residues of HIV-1 reverse transcriptase," <i>Nucl. Acids Res.</i> 18:5359-5363 (September 1990).
<i>r.e.</i>	AT	<u>19</u>	Repaske, R., <i>et al.</i> , "Inhibition of RNase H Activity and Viral Replication by Single Mutations in the 3' Region of Moloney Murine Leukemia Virus Reverse Transcriptase," <i>J. Virol.</i> 63:1460-1464 (March 1989).

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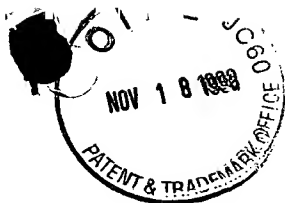
*N. Reed*

DATE CONSIDERED

3/19/03

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

<i>r.e.</i>	AR	<u>17</u>	Boehringer Mannheim Biochemicals, "Reverse Transcriptase AMV," "Reverse Transcriptase M-MuLV," Reverse Transcriptase, HIV-1," Products Catalogue, pp. 92-93 (1995).
<i>r.e.</i>	AS	<u>17</u>	Life Technologies, Inc., "GIBCO BRL Baculovirus Expression Products," Product Technical Literature (1996).
<i>r.e.</i>	AT	<u>17</u>	Toyobo, Tokyo, Japan, "M-MLV Reverse Transcriptase (RNase H-) ReverTraAce," Product Literature (1998).

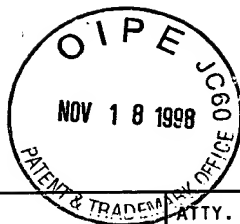
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*r.e. Gerst*

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r.e.r.	AA1	4,663,290	05/05/1987	Weis et al.	435	253	01/21/1982
r.e.r.	AB1	4,889,818	12/26/1989	Gelfand et al.	435	194	06/17/1987
r.e.r.	AC1	4,965,188	10/23/1990	Mullis et al.	435	6	06/17/1987
r.e.r.	AD1	5,244,797	09/14/1993	Kotewicz et al.	435	194	03/18/1991
r.e.r.	AE1	5,310,652	05/10/1994	Gelfand et al.	435	6	06/24/1993
r.e.r.	AF1	5,374,553	12/20/1994	Gelfand et al.	435	252.3	08/13/1990
r.e.r.	AG1	5,405,776	04/11/1995	Kotewicz et al.	435	252.33	01/24/1992
r.e.r.	AH1	5,436,149	07/25/1995	Barnes, W.M.	435	194	02/19/1993
r.e.r.	AI1	5,512,462	04/30/1996	Cheng, S.	435	91.2	02/25/1994
r.e.r.	AJ1	5,556,771	09/17/1996	Shen et al.	435	91.2	02/10/1995
r.e.r.	AK1	5,618,702	04/08/1997	Scanlon, K.J.	435	91.2	08/06/1993

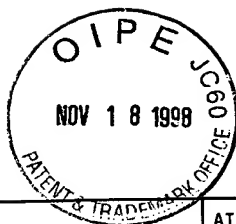
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
r.e.r.	AL1	WO 92/06200	04/16/1992	WIPO	—	—	Yes No
r.e.r.	AM1	WO 92/06188	04/16/1992	WIPO	—	—	Yes No
r.e.r.	AN1	WO 96/10640	04/11/1996	WIPO	—	—	Yes No
r.e.r.	AO1	WO 97/24455	07/10/1997	WIPO	—	—	Yes No
r.e.r.	AP1	EP 0 791 650 A1	08/27/1997	Europe	—	—	Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

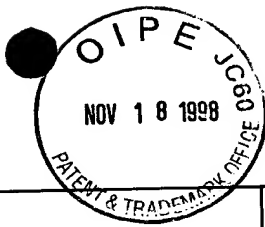
r.e.r.	AR	1	Aatinski, J.T., et al., "A Coupled One-Step Reverse Transcription PCR Procedure For Generation of Full-Length Open Reading Frames," <i>BioTechniques</i> 16:282-288 (1994).
r.e.r.	AS	1	Abbotts, J., et al., "Mechanism of HIV-1 Reverse Transcriptase," <i>J. Biol. Chem.</i> 268:10312-10323 (May 1993).
r.e.r.	AT	1	Alexander, F., et al., "Proteolytic Processing of Avian Sarcoma and Leukosis Viruses pol-endo Recombinant Proteins Reveals Another pol Gene Domain," <i>J. Virol.</i> 61:534-542 (February 1987).

EXAMINER r.e.r. [Signature]	DATE CONSIDERED 4/20/99
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R.R.	AA2	5,618,703	04/08/1997	Gelfand et al.	435	91.2	02/22/1994
R.R.	AB2	5,618,711	04/08/1997	Gelfand et al.	435	194	02/06/1995
R.R.	AC2	5,624,833	04/29/1997	Gelfand et al.	435	194	06/07/1995
R.R.	AD2	5,668,005	09/16/1997	Kotewicz et al.	435	194	03/12/1996
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R.R.	AR	2	Anderson, D., et al., "Rapid Generation of Recombinant Baculovirus and Expression of Foreign Genes Using the BAC-TO-BAC™ Baculovirus Expression System," <i>FOCUS</i> 17:53-58 (1995).				
R.R.	AS	2	Barnes, W.M., "The fidelity of <i>Taq</i> polymerase catalyzing PCR is improved by an N-terminal deletion," <i>Gene</i> 112:29-35 (1992).				
R.R.	AT	2	Barr, P.J., et al., "Expression of Active Human Immunodeficiency Virus Reverse Transcriptase in <i>Saccharomyces cerevisiae</i> ," <i>BioTechnology</i> 5:486-489 (May 1987).				
EXAMINER R. H. Bishop					DATE CONSIDERED 4/20/99		
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	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
R.R.	AR	3	Berger, S.L., et al., "Reverse Transcriptase and Its Associated Ribonuclease H: Interplay Two Enzyme Activities Controls the Yield of Single-Stranded Complementary Deoxyribonucleic Acid," <i>Biochemistry</i> 22:2365-2372 (1983).				
R.R.	AS	3	Chattopadhyay, D., et al., "Purification and Characterization of Heterodimeric Human Immunodeficiency Virus Type 1 (HIV-1) Reverse Transcriptase Produced by <i>in Vitro</i> Processing of p66 with Recombinant HIV-1 Protease," <i>J. Biol. Chem.</i> 267:14227-14232 (July 1992).				
R.R.	AT	3	Chernov, A.P., et al., "Recombinant reverse transcriptase of Rous sarcoma virus: characterization of DNA polymerase and RNAase H activities," <i>Biomed. Sci.</i> 2:49-53 (1991).				
EXAMINER R. H. Fisher					DATE CONSIDERED 4/29/99		
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
r.r.	AR	4	Freeman, W.M., et al., "Use of Elevated Reverse Transcription Reaction Temperatures in RT-PCR," <i>BioTechniques</i> 20:782-783 (May 1996).
r.r.	AS	4	Flaman, J.-M., et al., "A rapid PCR fidelity assay," <i>Nucl. Acids Res.</i> 22:3259-3260 (August 1994).
r.r.	AT	4	Gerard, G.F., et al., "Poly(2'-O-methylcytidylate) Oligodeoxyguanylate as a Template for the Ribonucleic Acid Directed Deoxyribonucleic Acid Polymerase in Ribonucleic Acid Tumor Virus Particles and a Specific Probe for the Ribonucleic Acid Directed Enzyme in Transformed Murine Cells," <i>Biochemistry</i> 13:1632-1641 (April 1974).

EXAMINER <u>r.r. Rishig</u>	DATE CONSIDERED 4/20/99
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<i>r.r.</i>	AR	<u>5</u>	Gerard, G.F., et al., "cDNA Synthesis by Cloned Moloney Murine Leukemia Virus Reverse Transcriptase Lacking RNase H Activity," <i>FOCUS</i> 11:66-69 (1989).
<i>r.r.</i>	AS	<u>5</u>	Gerard, G.F., et al., "cDNA Synthesis by Moloney Murine Leukemia Virus RNase H-Minus Reverse Transcriptase Possessing Full DNA Polymerase Activity," <i>FOCUS</i> 14:91-93 (1992).
<i>r.r.</i>	AT	<u>5</u>	Grandgenett, D.P., et al., "A Single Subunit from Avian Myeloblastosis Virus with Both RNA-Directed DNA Polymerase and Ribonuclease H Activity," <i>Proc. Natl. Acad. Sci. USA</i> 70:230-234 (January 1973).

EXAMINER

*r.r. Plonk*

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<i>re. d.</i>	AR	<u>6</u>	Grandgenett, D.P., et al., "Large-Scale Purification of Ribonucleic Acid Tumor Viruses by Use of Continuous-Flow Density Gradient Centrifugation," <i>Appl. Microbiol.</i> 26:452-454 (September 1973).
<i>re. re.</i>	AS	<u>6</u>	Gubler, U., and Hoffman, B.J., "A simple and very efficient method for generating cDNA libraries," <i>Gene</i> 25:263-269 (November 1983).
<i>re. re.</i>	AT	<u>6</u>	Hizi, A., and Joklik, W.K., et al., "RNA-dependent DNA Polymerase of Avian Sarcoma Virus B77," <i>J. Biol. Chem.</i> 252:2281-2289 (April 1977).

EXAMINER

*R. Ranshaw*

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r.e.	AR	Z	Hostomsky, Z., et al., "Reverse Transcriptase of Human Immunodeficiency Virus Type 1: Functionality of Subunits of the Heterodimer in DNA Synthesis," J. Virol. 66:3179-3182 (May 1992).
r.e.	AS	Z	Houts, G.E., et al., "Reverse Transcriptase from Avian Myeloblastosis Virus," J. Virol. 29:517-522 (February 1979).
r.e.	AT	Z	Huber, H.E., et al., "Human Immunodeficiency Virus 1 Reverse Transcriptase," J. Biol. Chem. 264:4669-4678 (March 1989).

EXAMINER

R. H. Hinkley

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re-re.	AR	8	Kawa, S., et al., "Expression and Purification of the HIV-1 Reverse Transcriptase Using the Baculovirus Expression Vector System," <i>Prot. Exp. Purif.</i> 4:298-303 (August 1993).
re-n.	AS	8	Knapp, B., et al., "In vitro translation of <i>Plasmodium falciparum</i> aldolase is not initiated at an unusual site," <i>EMBO J.</i> 10:3095-3097 (October 1991).
re-n.	AT	8	Kokko, H.I., et al., "Single-Step Immunocapture RT-PCR in the Detection of Raspberry Bushy Dwarf Virus," <i>BioTechniques</i> 20:842-846 (May 1996).

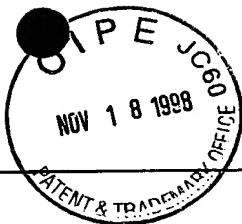
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R. Ronsky

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r.e.	AR	2	Kotewicz, M.L., et al., "Isolation of cloned Moloney murine leukemia virus reverse transcriptase lacking ribonuclease H activity," <i>Nucl. Acids Res.</i> 16:265-277 (1988).
r.e.	AS	2	Krug, M.S., et al., "First-Strand cDNA Synthesis Primed with Oligo(dT)," <i>Meth. Enzymol.</i> 152:316-325 (1987).
r.e.	AT	2	Lawyer, F.C., et al., "High-level Expression, Purification, and Enzymatic Characterization of Full-length <i>Thermus aquaticus</i> DNA Polymerase and a Truncated Form Deficient in 5' to 3' Exonuclease Activity," <i>PCR Meth. Appl.</i> 2:275-287 (May 1993).

EXAMINER

R. Ranshi

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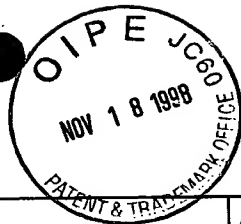
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

r.e.	AR	10	Lee, E.H., et al., "A Highly Sensitive Method For One-Step Amplification of RNA by Polymerase Chain Reaction," <i>FOCUS</i> 19:39-42 (Spring 1997).
r.e.	AS	10	Le Grice, S.F.J., and Grüniger-Leitch, F., "Rapid purification of homodimer and heterodimer HIV-1 Reverse Transcriptase by metal chelate affinity chromatography," <i>Eur. J. Biochem.</i> 187:307-314 (January 1990).
r.e.	AT	10	Le Grice, S.F.J., "Human Immunodeficiency Virus Reverse Transcriptase," in <i>Reverse Transcriptase</i> , Skalka, A.M., and Goff, S.P., Eds., Cold Spring Harbor, New York: Cold Spring Harbor Laboratory Press, pp.163-191 (1993)

EXAMINER <i>relationship</i>	DATE CONSIDERED 4/20/99
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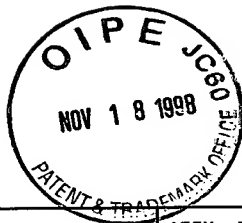
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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

r.e.	AR	11	Lowe, D.M., et al., "HIV-1 Reverse Transcriptase: Crystallization and Analysis of Domain Structure by Limited Proteolysis," <i>Biochemistry</i> 27:8884-8889 (December 1988).
r.e.	AS	11	Mallet, F., et al., "Continuous RT-PCR Using AMV-RT and <i>Taq</i> DNA Polymerase: Characterization and Comparison to Uncoupled Procedures," <i>BioTechniques</i> 18:678-687 (April 1995).
r.e.	AT	11	Messer, L.I., et al., "Functional Analysis of Reverse Transcription by a Frameshift <i>pol</i> Mutant of Murine Leukemia Virus," <i>Virology</i> 146:146-152 (1985).

EXAMINER r. Flouishy	DATE CONSIDERED 4/20/99
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

R.R.	AR	12	Mizrahi, V., et al., "Recombinant HIV-1 Reverse Transcriptase: Purification, Primary Structure, and Polymerase/Ribonuclease H activities," <i>Arch. Biochem. Biophys.</i> 273:347-358 (September 1989).
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R.R.	AT	12	Myers, T.W., and Gelfand, D.H., "Reverse Transcription and DNA Amplification by a <i>Thermus thermophilus</i> DNA Polymerase," <i>Biochemistry</i> 30:7661-7666 (August 1991).

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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

re. re.	AR	13	Prasad, V.R., et al., "Genetic Analysis of Retroviral Reverse Transcriptase Structure and Function," in <i>Reverse Transcriptase</i> , Skalka, A.M., and Goff, S.P., Eds., Cold Spring Harbor, New York: Cold Spring Harbor Laboratory Press, pp. 135-162 (1993).
re. re.	AS	13	Saiki, R.K., et al., "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase," <i>Science</i> 239:487-491 (January 1988).
re. re.	AT	13	Sambrook, J., et al., "Protocol for the Synthesis of the First Strand of cDNA," in <i>Molecular Cloning: A Laboratory Manual</i> , 2 <sup>nd</sup> Edition, Cold Spring Harbor, New York: Cold Spring Harbor Laboratory Press, pp. 8.60-8.63 (1989).

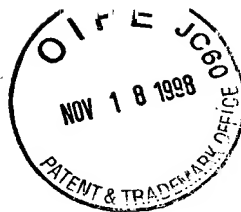
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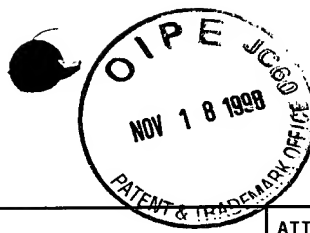
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
re. re.	AR	14	Schwartz, D.E., et al., "Nucleotide Sequence of Rous Sarcoma Virus," <i>Cell</i> 32:853-869 (March 1983).
re. re.	AS	14	Sellner, L.N., et al., "Reverse transcriptase inhibits Taq polymerase activity," <i>Nucl. Acids Res.</i> 20:1487-1490 (1992).
re. re.	AT	14	Sitaraman, K., et al., "RT-PCR of Difficult Templates Using the SUPERScript ONE-STEP™ RT-PCR System," <i>FOCUS</i> 19:43-44 (Spring 1997).

EXAMINER <i>relationships</i>	DATE CONSIDERED 4/20/99
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

re.re.	AR	15	Skalka, A.M., et al., "Endonuclease Activity Associated with Reverse Transcriptase of Avian Sarcoma-Leukosis Viruses," in <i>Reverse Transcriptase</i> , Skalka, A.M., and Goff, S.P., Eds., Cold Spring Harbor, New York: Cold Spring Harbor Laboratory Press, pp. 193-204 (1993).
re.re.	AS	15	Soltis, D.A., and Skalka, A.M., "The $\alpha$ and $\beta$ chains of avian retrovirus reverse transcriptase independently expressed in <i>Escherichia coli</i> : Characterization of enzymatic activities," <i>Proc. Natl. Acad. Sci. USA</i> 85:3372-3376 (May 1988).
re.re.	AT	15	Stahlhut, M., et al., "Purification and Characterization of HIV-1 Reverse Transcriptase Having a 1:1 Ratio of p66 and p51 Subunits," <i>Prot. Exp. Purif.</i> 5:614-621 (December 1994).

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r.r.	AR	16	Strauss, E.M., et al., "Efficient Production of Mammalian RNA Tumor Viruses in Serum-Free Culture Medium Allows Rapid RNA Subunit Purification," <i>J. Virol. Meth.</i> 1:213-221 (1980)
r.r.	AS	16	Wang, R.-F., et al., "A Simplified, Single Tube, Single Buffer System for RNA-PCR," <i>BioTechniques</i> 12:702, 704 (May 1992).
r.r.	AT	16	Weaver, D.T., and DePamphilis, M.L., "Specific Sequences in Native DNA that Arrest Synthesis by DNA Polymerase $\alpha$ ," <i>J. Biol. Chem.</i> 257:2075-2086 (February 1982).

EXAMINER r. r. <i>relationship</i>	DATE CONSIDERED 4/20/99
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